

Список научных работ
Хушвактова Ж.Х.

1. Lukas Zavorka, Jindřich Adam, Walter I. Furman, Karel Katovský, Jurabek Khushvaktov, Alexander A. Solnyshkin, Milena Stoyanova, Martin Suchopár, Pavel Tichý, Vsevolod M. Tsoupko-Sitnikov, Sergey I. Tyutyunnikov, Radek Vespalec, Jitka Vrzalová, Vladimír Wagner, Kamila Wilczyńska, Miroslav Zeman. Transmutation efficiency of the spallation neutron target measured with the actinide sandwiches. Nuclear Inst. and Methods in Physics Research, A 988 (2021) 164934
2. J. Khushvaktov, B. Yuldashev, S. Artemov, M. Kayumov, G. Kulabdullaev, A. Karakhodjaev, E. Bozorov, G. Abdullaeva, O. Tojiboev, V. Tatarchuk, F. Ergashev, E. Ruziev. Modeling a $^{nat}\text{U} + ^{232}\text{Th}$ Neutron Source Based on a $d + t$ Neutron Generator. Bulletin of the Russian Academy of Sciences: Physics, 2020, Vol. 84, No. 12, pp. 1537–1539
3. J.H. Khushvaktov, V.I. Stegailov, J. Adam, V.V. Kobets, A.A. Solnyshkin, J. Svoboda, Yu.G. Teterev, P. Tichy, V.M. Tsoupko-Sitnikov, S.I. Tyutyunnikov, J. Vrzalova, B.S. Yuldashev, M. Zeman. Study of the Rate of Photonuclear Reactions in ^{165}Ho Nucleus. Physics of Particles and Nuclei Letters, 2020, Vol. 17, No. 6, pp. 821–825
4. P. Tichý, J. Adam, A.A. Baldin, P. Chudoba, W.I. Furman, S.A. Gustov, J.H. Khushvaktov, A. Krása, M. Majerle, I.I. Mar'in, A.A. Solnyshkin, M. Suchopár, J. Svoboda, O. Svoboda, S.I. Tyutyunnikov, J. Vrzalová, V. Wagner, L. Závorka, M. Zeman. Monitoring mixed neutron-proton field near the primary proton and deuteron beams in spallation targets. Indian Journal of Pure & Applied Physics Vol. 58, April 2020, pp. 282-293
5. J. Svoboda, J. Adam, S. Foral, S.A. Gustov, K. Katovsky, J. Khushvaktov, D. Kral, A.A. Solnyshkin, P. Tichy, S.I. Tyutyunnikov, M. Zeman. Generated heat by different targets irradiated by 660 MeV protons. Indian Journal of Pure & Applied Physics Vol. 58, April 2020, pp. 246-254
6. J.H. Khushvaktov, P. Tichý, J. Adam, A.A. Baldin, M. Baznat, M. Brunčiaková, W.I. Furman, S.A. Gustov, D. Král, A.A. Solnyshkin, V.I. Stegailov, J. Svoboda, V.M. Tsoupko-Sitnikov, S.I. Tyutyunnikov, R. Vespalec, J. Vrzalová, V. Wagner, I.P. Yudin, B.S. Yuldashev, L. Závorka, M. Zeman. Study of the residual nuclei generation in a massive lead target irradiated with 660 MeV protons. Nuclear Inst. and Methods in Physics Research, A 959 (2020) 163542
7. E.S. Kurakina, A.I. Velichkov, D.V. Karaivanov, A.P. Marinova, G.M. Marinov, V.Radchenko, J.H. Khushvaktov, E.P. Magomedbekov, D.V. Filosofov. Production of ^{111}In and Radioisotopes of Te and Sn from an Antimony Target Irradiated with High-Energy Protons. Radiochemistry 62, 393–399 (2020)
8. Miroslav Zeman, Jindrich Adam, Anton Baldin, Miriama Brunciakova, Sergey Gustov, Karel Katovsky, Jurabek Khushvaktov, Dusan Kral, Alexander Solnyshkin, Josef Svoboda, Ondrej Stastny, Pavel Tichy, Sergey Tyutyunikov, Jitka Vrzalova, Vladimir Wagner, Lukas Zavorka. Distribution of neutrons and protons in elongated targets. EPJ Web of Conferences 239, 06005 (2020)
9. A.R. Balabekyan, G.S. Karapetyan, E. Andrade-II, A. Deppman, S.V. Gaginyan, E. Melyan, J.R. Drnoyan, V.I. Zhemenik, J. Adam, L. Zavorka, A.A. Solnyshkin, V.M. Tsoupko-Sitnikov, J. Khushvaktov, E.B. Hernández. PHYSICAL REVIEW C100, 024616 (2019)
10. A.R. Balabekyan, G.S. Karapetyan, N.A. Demekhina, S.V. Gaginyan, J.R. Drnoyan, V.I. Zhemenik, J. Adam, L. Zavorka, A.A. Solnyshkin, V.M. Tsoupko-Sitnikov, J. Khushvaktov, V. Pronskikh, V.M. Zhamkochyan, V. Guimarães, A. Deppman. Spallation reactions induced by 4.4 GeV deuterons on lead isotopes. J. Phys. G: Nucl. Part. Phys. 46 (2019)095103 (23pp)

11. P. Tichý, J. Adam, A. Baldin, P. Chudoba, W. Furman, S. Gustov, J. Khushvaktov, I. Mar'in, A. Solnyshkin, M. Suchopár, J. Svoboda, S. Tyutyunnikov, R. Vespalec, J. Vrzalová, V. Wagner, L. Závorka, M. Zeman. Experimental investigation and Monte Carlo simulations of radionuclide production inside the Uranium spallation target QUINTA irradiated with a 660-MeV proton beam. EPJ Web of Conferences 204, 04003 (2019)
12. R.R. Holomb, S.A. Tari, K. Katovsky, I. Haysak, J. Adam, V.B. Brudanin, R. Vespalec, J. Vrzalova, L. Zavoroka, M. Zeman, D.V. Karaivanov, A.A. Solnyshkin, D.V. Philosophov, J. Khushvaktov V.M. Tsoupko-Sitnikov. Cross sections of nuclear isomers from the interaction of protons with the thin thorium target. EPJ Web of Conferences 204, 04006 (2019)
13. S. Kilim, E. Strugalska-Gola, M. Szuta, S. Tyutyunnikov, O. Dalkhjav, V.I. Stegailov, I.A. Kryachko, J.H. Khushvaktov, A.G. Shakun, F.B. Sagimbaeva, A.S. Balandin. Am-241 incineration measurements with activation method in the QUINTA neutron field. EPJ Web of Conferences 204, 04004 (2019)
14. A.R. Balabekyan, G. Karapetyan, N.A. Demekhina, S.V. Gaginyan, D.R. Drnoyan, V.I. Zhemelik, J. Adam, L. Zavoroka, A.A. Solnyshkin, V.M. Tsoupko-Sitnikov, J. Khushvaktov. Isotopic Dependence of Fragment Production Cross Sections in the Reactions of Deuterons on Enriched Lead and Tin Isotopes. Phys. Atom. Nuclei 81, 804–809 (2018)
15. M. Suchopár, V. Wagner, O. Svoboda, J. Vrzalová, P. Chudoba, P. Tichý, M. Majerle, A. Krása, A. Kugler, J. Adam, L. Závorka, A. Baldin, W. Furman, M. Kadykov, J. Khushvaktov, A. Solnyshkin, V. Tsoupko-Sitnikov, S. Tyutyunnikov. Activation measurement of neutron production and transport in a thick lead target and a uranium blanket during 4 GeV deuteron irradiation. Nuclear Inst. and Methods in Physics Research, A 908 (2018) 347–360
16. Lukas Zavoroka, Jitka Vrzalová, Miroslav Zeman, Jindřich Adam, Pavel Čaloun, Petr Chudoba, Walter I. Furman, Karel Katovský, Jurabek Khushvaktov, Alexander A. Solnyshkin, Martin Suchopár, Pavel Tichý, Vsevolod M. Tsoupko-Sitnikov, Sergey I. Tyutyunnikov, Radek Vespalec, Vladimír Wagner. Characterization of a mixed high-energy spallation neutron–proton field using monoisotopic activation detectors. Nuclear Inst. and Methods in Physics Research, A 903 (2018) 246–261
17. I.N. Izosimov, A.A. Solnyshkin, J.H. Khushvaktov, Yu.A. Vaganov. Fine Structure of Beta Decay Strength Function and Anisotropy of Isovector Nuclear Density Component Oscillations in Deformed Nuclei. Physics of Particles and Nuclei Letters, 2018, Vol. 15, No. 3, pp. 298–309
18. J.H. Khushvaktov, J. Adam, A.A. Baldin, W.I. Furman, S.A. Gustov, Yu.V. Kish, A.A. Solnyshkin, V.I. Stegailov, J. Svoboda, P. Tichy, V.M. Tsoupko-Sitnikov, S.I. Tyutyunnikov, R. Vespalec, J. Vrzalova, V. Wagner, B.S. Yuldashev, L. Zavoroka, M. Zeman. Monte Carlo simulations and experimental results on neutron production in the uranium spallation target QUINTA irradiated with 660 MeV protons. Applied Radiation and Isotopes 137 (2018) 102–107
19. S.R. Hashemi-Nezhad, N.L. Asquith, V.A. Voronko, V.V. Sotnikov, Alina Zhadan, I.V. Zhuk, A. Potapenko, Krystsina Husak, V. Chilap, J. Adam, A. Baldin, A. Berlev, W. Furman, M. Kadykov, J. Khushvaktov, I. Kudashkin, I. Mar'in, M. Paraipan, V. Pronskih, A. Solnyshkin, S. Tyutyunnikov. Transmutation of uranium and thorium in the particle field of the QUINTA sub-critical assembly. Nuclear Instruments and Methods in Physics Research A 883 (2018) 96–114
20. M. Zeman, J. Adam, A.A. Baldin, W.I. Furman, S.A. Gustov, K. Katovsky, J. Khushvaktov, I.I. Mar'in, F. Novotny, A.A. Solnyshkin, P. Tichy, V.M. Tsoupko-Sitnikov, S.I. Tyutyunnikov, R. Vespalec, J. Vrzalova, V. Wagner, L. Zavoroka. Determination of the Secondary Neutron Flux at the Massive Natural Uranium Spallation Target. Physics Procedia 90 (2017) 69–78

21. J. Adam, A.A. Baldin, M. Baznat, A.I. Berlev, K.V. Gusak, I.V. Kudashkin, J. Khushvaktov, M. Paraipan, V.S. Pronskikh, A.A. Solnyshkin, V. Sotnikov, V.I. Stegailov, S.I. Tyutyunikov, V. Voronko, M. Zeman, I. Zhuk. Secondary particle distributions in an extended uranium target under irradiation by proton, deuteron, and carbon beams. *Nuclear Instruments and Methods in Physics Research A* 872 (2017) 87–92
22. R. Vespalec, J. Adam, A.A. Baldin, J. Khushvaktov, A.A. Solnyshkin, V.M. Tsoupko-Sitnikov, S.I. Tyutyunikov, J. Vrzalova, L. Zavoroka, M. Zeman. Cross-sections of residual nuclei from deuteron irradiation of thin thorium target at energy 7 GeV. *The European Physical Journal Conferences* 146, 09038 (2017)
23. M. Suchopár, V. Wagner, O. Svoboda, J. Vrzalová, P. Chudoba, P. Tichý, A. Kugler, J. Adam, L. Závorka, A. Baldin, W. Furman, M. Kadykov, J. Khushvaktov, A. Solnyshkin, V. Tsoupko-Sitnikov, S. Tyutyunnikov, M. Bielewicz, S. Kilim, E. Strugalska-Gola, M. Szuta. Monte Carlo simulations of Yttrium reaction rates in Quinta uranium target. *The European Physical Journal Conferences* 138, 10003 (2017)
24. J. Khushvaktov, J. Adam, A.A. Baldin, V.V. Chilap, V.I. Furman, F. Sagimbaeva, A.A. Solnyshkin, V.I. Stegailov, P. Tichy, V.M. Tsoupko-Sitnikov, S.I. Tyutyunnikov, R. Vespalec, J. Vrzalova, B.S. Yuldashev, V. Wagner, L. Zavoroka, M. Zeman. Interactions of secondary particles with thorium samples in the setup QUINTA irradiated with 6 GeV deuterons. *Nuclear Instruments and Methods in Physics Research B* 381 (2016) 84–89, JINR preprint E6-2016-62, Dubna, 2016, 20 p.
25. J. Adam, V.V. Chilap, V.I. Furman, M.G. Kadykov, J. Khushvaktov, V.S. Pronskikh, A.A. Solnyshkin, V.I. Stegailov, M. Suchopar, V.M. Tsoupko-Sitnikov, S.I. Tyutyunnikov, J. Vrzalova, V. Wagner, L. Zavoroka. Study of secondary neutron interactions with ^{232}Th , ^{129}I , and ^{127}I nuclei with the uranium assembly “QUINTA” at 2, 4, and 8 GeV deuteron beams of the JINR Nuclotron accelerator. *Applied Radiation and Isotopes* 107 (2016) 225–233, FERMILAB-PUB-16-215-APC
26. J. Adam, A.A. Baldin, V. Chilap, W. Furman, K. Katovsky, J. Khushvaktov, V. Kumar, V. Pronskikh, I. Mar'in, A. Solnyshkin, M. Suchopar, V. Tsoupko-Sitnikov, S. Tyutyunnikov, J. Vrzalova, V. Wagner, L. Zavoroka. Measurement of the high energy neutron flux on the surface of the natural uranium target assembly QUINTA irradiated by deuterons of 4 and 8 GeV energy. *Physics Procedia* 80 (2015) 94 – 97
27. L. Zavoroka, J. Adam, A.A. Baldin, P. Caloun, V.V. Chilap, W.I. Furman, M.G. Kadykov, J. Khushvaktov, V.S. Pronskikh, A.A. Solnyshkin, V. Sotnikov, V.I. Stegailov, M. Suchopar, V.M. Tsoupko-Sitnikov, S.I. Tyutyunnikov, V. Voronko, J. Vrzalova. Neutron-induced transmutation reactions in ^{237}Np , ^{238}Pu , and ^{239}Pu at the massive natural uranium spallation target. *Nuclear Instruments and Methods in Physics Research B* 349 (2015) 31–38
28. L. Zavoroka, J. Adam, M. Artiushenko, A.A. Baldin, V.B. Brudanin, O. Bukhal, P. Caloun, V.V. Chilap, W.I. Furman, K. Husak, M.G. Kadykov, K. Katovsky, J. Khushvaktov, I.I. Marin, V.S. Pronskikh, A.A. Solnyshkin, V. Sotnikov, V.I. Stegailov, M. Suchopar, O. Svoboda, V.M. Tsoupko-Sitnikov, S.I. Tyutyunnikov, V. Voronko, J. Vrzalova, V. Wagner, P. Zhivkov, I. Zhuk. Validation of Monte Carlo simulation of neutron production in a spallation experiment. *Annals of Nuclear Energy* 80 (2015) 178–187
29. M. Suchopár, V. Wagner, O. Svoboda, J. Vrzalová, P. Chudoba, A. Kugler, J. Adam, L. Závorka, A. Baldin, W. Furman, M. Kadykov, J. Khushvaktov, A. Solnyshkin, V. Tsoupko-Sitnikov, S. Tyutyunnikov. Cross-section studies of relativistic deuteron reactions on copper by activation method. *Nuclear Instruments and Methods in Physics Research B* 344 (2015) 63–69

30. V. Wagner, M. Suchopár, J. Vrzalová, P. Chudoba, T. Herman, O. Svoboda, B. Geier, A. Krása, M. Majerle, A. Kugler, J. Adam, A. Baldin, W. Furman, M. Kadykov, J. Khushvaktov, A. Solnyshkin, V. Tsoupko-Sitnikov, S. Tyutyunikov, L. Zavorka, N. Vladimirova, M. Bielewicz, S. Kilim, M. Szuta, E. Strugalska-Gola. Cross-section studies of important neutron and relativistic deuteron reactions. *Journal of Physics Conference Series* 533 (2014) 012052
31. A.R. Balabekyan, N.A. Demekhina, G.S. Karapetyan, D.R. Drnoyan, V.I. Zhemenik, J. Adam, L. Zavorka, A.A. Solnyshkin, V.M. Tsoupko-Sitnikov, J. Khushvaktov, L. Karayan, V. Guimarães, A. Deppman, F. Garcia. Target residues formed in the 4.4 GeV deuteron-induced reaction on gold. *Physical Review C* 90, 054612 (2014)
32. A.R. Balabekyan, N.A. Demekhina, G.S. Karapetyan, L. Karayan, D.R. Drnoyan, V.I. Zhemenik, J. Adam, L. Zavorka, A.A. Solnyshkin, V.M. Tsoupko-Sitnikov, J. Khushvaktov, V. Guimarães, A. Deppman. Recoil properties of fragments formed in 4.4 GeV deuteron-induced reactions on a gold target. *Physical Review C* 89, 054604 (2014)
33. I.I. Haysak, O.V. Takhtasiev, J. Khushvaktov, A.A. Solnyshkin, A. Tanchak, R.R. Holomb, K. Katovsky. Monte Carlo simulation of bremsstrahlung spectra for low energy electron accelerators. 2020 21st International Scientific Conference on Electric Power Engineering (EPE).
34. R.R. Holomb, K. Katovsky, I. Haysak, J. Adam, R. Vespalec, J. Vrzalova, M. Zeman, V.B. Brudanin, L. Zavorka, D.V. Karaivanov, A.A. Solnyshkin, D.V. Filosofov, J. Khushvaktov, V.M. Tsoupko-Sitnikov. Experimental and simulated data at fragment productions in 100 MeV proton-induced reaction on ^{232}Th . 2020 21st International Scientific Conference on Electric Power Engineering (EPE).
35. Dusan Kral, Miroslav Zeman, Jindrich Adam, Karel Katovsky, Josef Svoboda, Ondrej Stastny, Jitka Vrzalova, Pavel Tichy, Jurabek Khushvaktov, Alexander Solnyshkin. Measurement of activation products in chloride salts irradiated by spallation neutrons. 2020 21st International Scientific Conference on Electric Power Engineering (EPE).
36. Igor Izosimov, Alexander Solnyshkin, Jurabek Khushvaktov. Fine Structure of β -Decay Strength Function. Proceedings of the Ito International Research Center Symposium "Perspectives of the Physics of Nuclear Structure".
37. Robert Golomb, Karel Katovsky, Jindrich Adam, Miroslav Zeman, Sandor Tari, Ivan Haysak, Yuriy Kish, Alexander Solnyshkin, Jurabek Khushvaktov, Jitka Vrzalova, Radek Vespalec, Lukas Zavorka. Cross-sections of nuclear isomers in the interaction of protons on thin thorium target. 2018 19th International Scientific Conference on Electric Power Engineering (EPE).
38. Miroslav Zeman, Jindrich Adam, Karel Katovsky, Ondrej Stastny, Josef Svoboda, Anton Baldin, Sergey Gustov, Jurabek Khushvaktov, Alexander Solnyshkin, Pavel Tichy, Sergey Tyutyunnikov, Radek Vespalec, Jitka Vrzalova, Lukas Zavorka. Experimental investigation of the radionuclides produced in massive spallation target. 2018 19th International Scientific Conference on Electric Power Engineering (EPE).
39. Josef Svoboda, Jindrich Adam, Miriama Brunciakova, Karel Katovsky, Miroslav Zeman, Anton Baldin, Sergey Gustov, Jurabek Khushvaktov, Alexander Solnyshkin, Pavel Tichy, Sergey Tyutyunnikov, Radek Vespalec. Process of heat generation and its transfer monitoring at uranium spallation target QUINTA. 2018 19th International Scientific Conference on Electric Power Engineering (EPE).
40. Dusan Kral, Miroslav Zeman, Jindrich Adam, Karel Katovsky, Radek Vespalec, Pavel Tichy, Jurabek Khushvaktov, Alexander Solnyshkin. Investigation of thorium utilization in accelerator driven systems. 2018 19th International Scientific Conference on Electric Power Engineering (EPE).

01.10.2021?